

Government of India Ministry of Earth Sciences India Meteorological Department



Subject: Under the influence of Western disturbance, light to moderate rainfall/snowfall likely over Western Himalayan Region and light rainfall over adjoining plains on 22nd & 23rd January, 2025.

i. Realised weather during past 24 hours till 0830 hours IST of today (Annexure I)

- Dense to very dense fog (visibility< 50 m) reported in some parts of East Uttar Pradesh; in isolated pockets of Haryana, West Uttar Pradesh, Bihar, Odisha and dense fog (visibility 50-199 m) reported in isolated pockets of Jammu-Kashmir, Assam & Meghalaya and West Bengal & Sikkim.</p>
- Visibility reported (<200 m) (in meter): Haryana: Karnal 0; East Uttar Pradesh: Gorakhpur, Bahraich 0 each; West Uttar Pradesh: Najibabad 0; Bihar: Purnea 0; Odisha: Chandbali 0; Jammu-Kashmir: Kupwara 50; Sub-Himalayan West Bengal & Sikkim: Bagdogra 50, Cooch Behar 50; Gangetic West Bengal: Durgapur 50, Bankura 50, Panagarh 50; Assam & Meghalaya: Barapani 80, Cherrapunji 100.
- Light rainfall/snowfall at a few places occurred over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

Weather Systems, Forecast and warning (Annexure II & III):

- The Western Disturbance as a cyclonic circulation lies over Punjab & neighbourhood in lower tropospheric levels. The induced cyclonic circulation lies over Haryana & neighbourhood in lower tropospheric levels. Another cyclonic circulation lies over southeast Rajasthan and neighbourhood in lower tropospheric levels. Another Western Disturbance as a trough in middle & upper tropospheric westerlies runs roughly along Long. 65°E to the north of Lat. 30°N. Under the influence of these systems:
 - Isolated to Scattered rainfall/snowfall very likely over Western Himalayan Region till 23rd and isolated rainfall likely over Punjab, Haryana, Chandigarh & West Uttar Pradesh on 22nd & 23rd and Rajasthan on 22nd January.
 - Thunderstorm activity at isolated places likely over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh and West Uttar Pradesh on 22nd January.
- Thunderstorm activity at isolated places likely over Arunachal Pradesh, Assam & Meghalaya and Tamilnadu Puducherry & Karaikal on 22nd January.

ii. Temperature, Cold Day and Fog Forecast:

Temperature Conditions during past 24 hours till 0830 hours IST of today (Annexure IV):

- Minimum temperatures are below 0°C over isolated places of Jammu, Kashmir & Ladakh; 7-14°C over many parts of plains of northwest, Central & East India; 14-18°C in many parts of West India. Today, the lowest minimum temperature of 3.8°C is reported at Adampur (Punjab) over the plains of the country.
- During the past 24 hours, there has been fall in minimum temperatures by 1-3°C in some parts of Himachal Pradesh & Uttar Pradesh; in isolated places of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Chhattisgarh, Saurashtra & Kutch, Kerala & Mahe and rise by 1-3°C in many parts of Odisha and Gangetic West Bengal; in some parts of Madhya Pradesh; in isolated places of Assam & Meghalaya, Vidarbha and Tamil Nadu.
- Minimum temperatures are below normal (-1°C to -3°C) at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana. These are markedly above normal (5°C or more) at isolated places over West Rajasthan; appreciably above normal (3°C to 5°C) at many places over Madhya Pradesh; at a few places over Assam & Meghalaya, Uttar Pradesh, Gujarat State; at isolated places over Himachal Pradesh, Punjab, East Rajasthan, Bihar; above normal (1°C to 3°C) at many places over Gangetic West Bengal & Tamilnadu Puducherry & Karaikal; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Madhya Maharashtra, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and near normal over rest parts of the country.

Forecast of temperature:

- Rise in minimum temperatures by about 2°C likely over plains of Northwest India during next 24 hours and gradual fall by 2-4°C thereafter.
- Rise in minimum temperatures by 2-3°C likely over East India during next 3 days and gradual fall by 2-4°C thereafter.
- No significant change in minimum temperatures likely over Central India during next 48 hours and gradual fall by 2-3°C thereafter.
- No significant change in minimum temperatures likely over Maharashtra during next 24 hours and gradual fall by 2-3°C thereafter.
- Gradual fall in minimum temperatures by 2-3°C likely over Gujarat Region during next 24 hours and no significant change thereafter.

Cold Wave Warnings:

Cold Wave conditions very likely in isolated pockets of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 23rd & 24th January.

Dense Fog Warnings:

Dense to very Dense fog Condition very likely to continue to prevail during night/early morning hours in isolated pockets of East Uttar Pradesh on 22nd January.

Dense fog conditions very likely to continue to prevail during night/early morning hours in isolated pockets of Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura till 23rd; Rajasthan, West Bengal & Sikkim, Bihar, Odisha till 24th; West Uttar Pradesh till 26th; East Uttar Pradesh during 23rd-26th January.

Cold Day Warnings:

Cold day conditions very likely in isolated pockets of Himachal Pradesh on 23rd and Bihar on 22nd & 23rd January.

Fishermen Warnings (Annexure V):

Fishermen are advised not to venture into Comorin area & adjoining Gulf of Mannar on 22nd & 23rd; south of Sri Lanka coast & adjoining southwest Bay of Bengal, northwest Arabian sea adjoining Gulf of Oman on 22nd January.

iii. Weather conditions and forecast over Delhi/NCR during 22nd Jan. to 25th Jan. 2025 (Annexure VI)

For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php For District wise warnings refer: https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php

ANNEXURE I

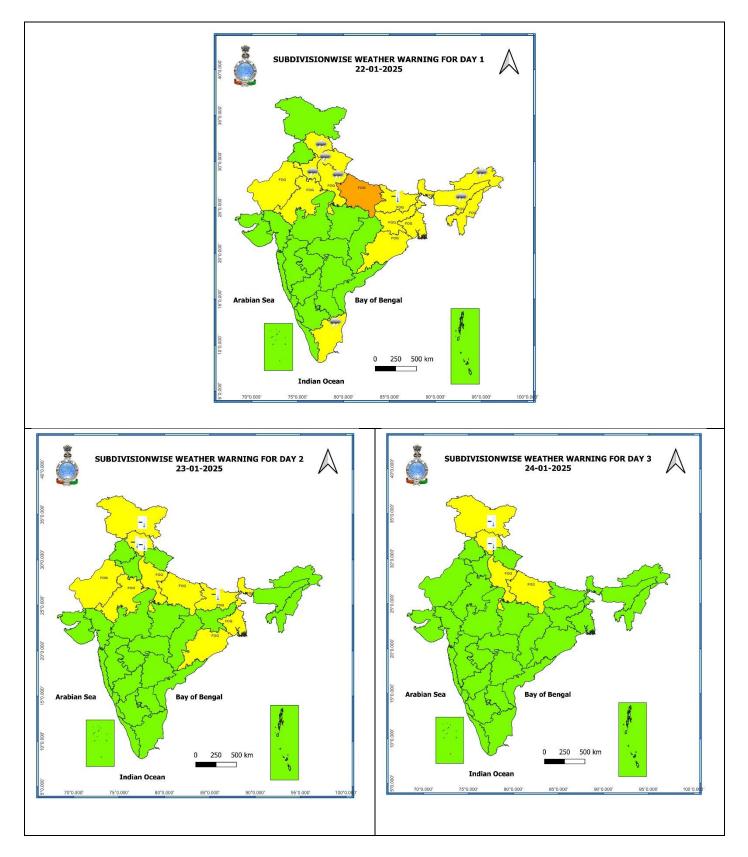
Rainfall recorded during past 24 hours till 0830 hours IST of today 22.01.2025 (in cm):

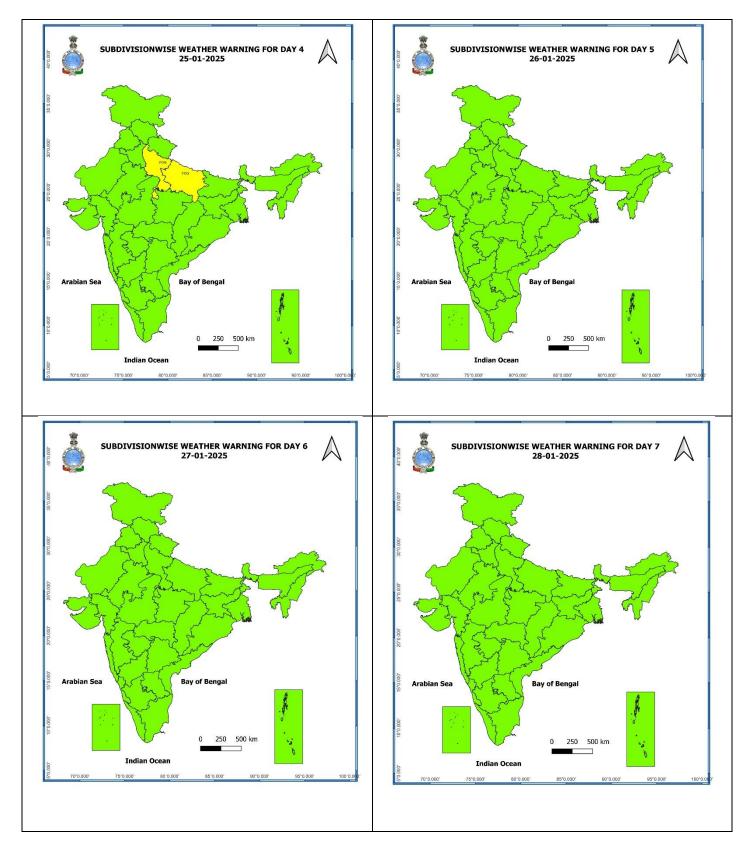
 Jammu-Kashmir: Raj Pura Arg (dist Poonch) 1, Gulmarg R.s. (dist Baramula) 1, Lolab (dist Kupwara) 1, Buhama (dist Kupwara) 1

7 Days Rainfall Forecast									
S.		22-	23-	24-	25-	26-	27-	28-	
S. No.	Subdivision	Jan	Jan	Jan	Jan	Jan	Jan	Jan	
NO.			Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT	
2	ARUNACHAL PRADESH	ISOL	SCT	SCT	SCT	ISOL	ISOL	ISOL	
3	ASSAM & MEGHALAYA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	ISOL	
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL	
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
11	WEST UTTAR PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY	
12	UTTARAKHAND	SCT	FWS	DRY	DRY	DRY	DRY	DRY	
13	HARYANA CHANDIGARH & DELHI	SCT	ISOL	DRY	DRY	DRY	DRY	DRY	
14	PUNJAB	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY	
15	HIMACHAL PRADESH	SCT	SCT	DRY	DRY	DRY	DRY	DRY	
16	JAMMU & KASHMIR AND LADAKH	SCT	ISOL	DRY	DRY	DRY	DRY	DRY	
17	WEST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY	DRY	DRY	
18	EAST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY	DRY	DRY	
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
21	GUJARAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
25	MARATHAWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
28	COASTAL ANDHRA PRADESH & YANAM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY	
32	COASTAL KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
35	KERALA & MAHE	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY	
36	LAKSHADWEEP	SCT	SCT	DRY	DRY	DRY	DRY	DRY	

• As the lead period increases forecast accuracy decreases

ANNEXURE III





- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

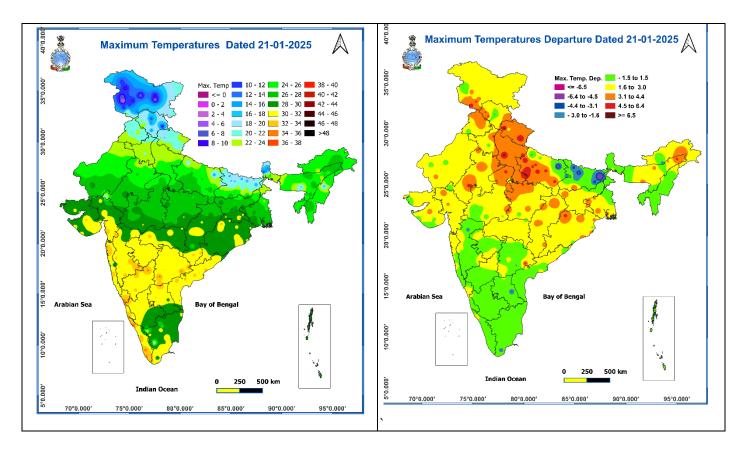
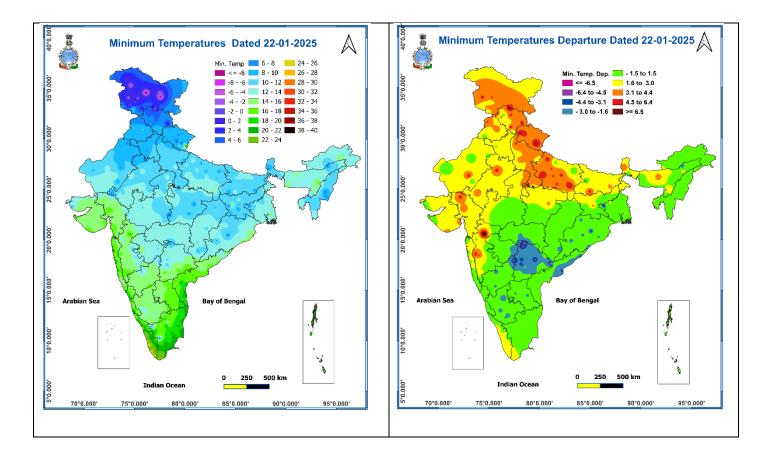


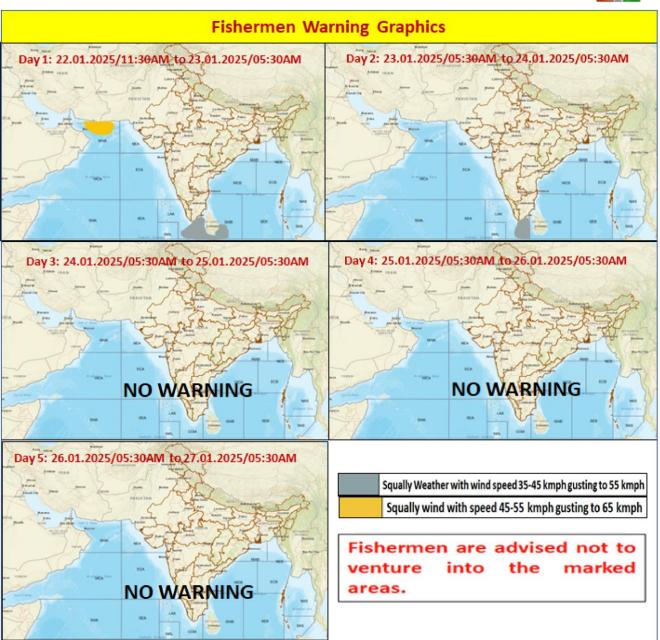
Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures









Weather forecast over Delhi/NCR during 22nd to 25th Jan. 2025

Past Weather:

There has been a fall in minimum temperature upto 01°C over Delhi/NCR during past 24hr. The Maximum and Minimum temperatures over Delhi are in the range of 22 to 24°C and 09 to 10°C respectively. The minimum temperature was above normal upto 02°C and maximum temperature was above normal upto 04°Cover most places. Shallow fog was reported at Palam airport. Palam airport recorded the lowest visibility 700m from 0730 hours to 0800 hours IST which improved thereafter becoming 900 m at 0830 hours IST. Safdarjung airport recorded the lowest visibility 1000m at 0730 hours IST which improved thereafter becoming 1200 m at 0800 hours IST. Mainly smog/mist conditions with predominant surface wind from the southwest direction with wind speed reaching 12 to 14 kmph prevailed during past 24hr. Mainly clear sky conditions with wind speed less than 08 kmph west direction prevailed over the region in the forenoon today.

Weather Forecast:

22.01.2025: Partly cloudy sky. Possibility of one or two spell of very light to light rain with thunderstorms during night. The predominant surface wind will likely be in the northwest direction with a wind speed of less than 08 kmph till evening. It would decrease thereafter becoming less than 06 kmph from the northwest direction during the night. Smog/shallow fog is likely in the evening/night.

23.01.2025: Generally cloudy sky. Possibility of a spell of light rain during morning. The predominant surface wind is likely to be from the north direction with a wind speed less than 06 kmph during morning hours. Smog/ shallow fog in most of the places very likely to commence during early morning hours with moderate fog in isolated places during morning hours. The wind speed will decrease thereafter becoming 08-10 kmph from north direction during afternoon. It will gradually decrease becoming less than 06 kmph from north direction during evening and night. Smog/shallow fog is likely in the evening/night.

24.01.2025: Mainly clear sky. The predominant surface wind is likely to be from northwest direction with wind speed less than 06 kmph during morning hours. Smog/moderate fog in most of the places likely in the morning. The wind speed will gradually increase thereafter becoming 12-14 kmph from northwest direction during afternoon. It will decrease becoming less than 08 kmph from northwest direction during evening and night. Smog/shallow fog is likely in the evening/night.

25.01.2025: Mainly clear sky. The predominant surface wind will likely be in the northwest direction with a wind speed of less than 06 kmph during morning hours. Smog/moderate fog in most of the places likely in the morning. The wind speed will gradually increase thereafter becoming 12-14 kmph from northwest direction during afternoon. It will decrease becoming less than 08 kmph from northwest direction during evening and night. Smog/shallow fog is likely in the evening/night.

Impact expected due to dense/very dense fog in the night /morning hour:

Transport and Aviation:

- May affect some airports, highways and railway routes in the areas of met- sub-division.
- Difficult driving conditions with slower journey times.
- Unless taken precautionary measures, it may lead to some road traffic collisions.
- Power Sector:
 - Chances of Tripping of Power lines in the very dense fog routes.
- ✤ Human Health:
 - Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
 - Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
 - Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

Transport and Aviation:

- Be careful while driving or outing through any transport.
- Use fog lights during driving.

• Be in touch with airlines, railways and state transport for schedule of your journey.

Power Sector:

- To keep ready Maintenance Team.
- Human Health: To avoid outing until unless emergency and to cover the face.

Impact expected due to Cold Day conditions

- An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.
- Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

Action suggested:

- Wear several layers of loose fitting, light weight; warm woollen clothing.
- Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm Woolen clothing rather than one layer of heavy cloth.
- Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- Avoid or limit outdoor activities.
- Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
- Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.
- If the affected skin area turns black, immediately consult a doctor.
- Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- Take safety measures while using electrical and gas heating devices.
- Extreme care needed for vulnerable people.
- Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- Protect livestock from cold weather.

Legends & abbreviations:

- ♦ Heavy Rain:64.5-115.5mm; Very Heavy Rain:115.6-204.4mm; Extremely Heavy Rain: >204.4mm.
- Obsy: Observatory; AWS: Automatic Weather Station; ARG: Automatic Rain Gauge; dist: District: NH: National Highway;
 KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office, Aero: Aerodrome, IAF: Indian Air Force.
- * Region wise classification of meteorological Sub-Divisions:
 - Northwest India: Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
 - Central India: West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
 - South India: Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

	LE	<u>GENDS</u>	
1. अंडमान और निकोबार द्वीपस	नमूह		1. Andaman & Nicobar Islands
2. अरुणाचल प्रदेश			2. Arunachal Pradesh
3. असम और मेघालय			3. Assam & Meghalaya
4. नागालैंड, मणिपुर, मिजोरम अ	और त्रिपुरा		4. Nagaland, Manipur, Mizoram & Tripu
5. उप-हिमालयी पश्चिम बंगाल अ	और सिक्किम		5. Sub-Himalayan West Bengal & Sikkim
6. गंगीय पश्चिम बंगाल	men		6. Gangetic West Bengal
7. ओडिशा	Ser and a series of the series		7. Odisha
8. झारखंड	16		8. Jharkhand
9. बिहार	Long Star		9. Bihar
10. पूर्वी उत्तर प्रदेश	15		10. East Uttar Pradesh
11. पश्चिम उत्तर प्रदेश	14 12		11. West Uttar Pradesh
12. उत्तराखंड	13		12. Uttarakhand
13. हरियाणा, चंडीगढ़ और दिल्ल	ell 17 5 5 5	5 Same	13. Haryana, Chandigarh & Delhi
14. पंजाब	× 18	10 3 9	3 کم 14. Punjab
15. हिमाचल प्रदेश	and the second	Struck .	15. Himachal Pradesh
16. जम्मू और कश्मीर और लद्दा	ख 🏷 े 21 रे 19 } 20	5 28561	16. Jammu & Kashmir and Ladakh
17. पश्चिम राजस्थान	22 JE for sind		17. West Rajasthan
18. पूर्वी राजस्थान	26 26 J	~	18. East Rajasthan
19. पश्चिम मध्य प्रदेश	23 24 25	Jas	19. West Madhya Pradesh
20. पूर्वी मध्य प्रदेश	29 }		20. East Madhya Pradesh
21. गुजरात	33 2 28		21. Gujarat
22. सौराष्ट्र	32 30		22. Saurashtra
23. कोंकण और गोवा	34 34 34		23. Konkan & Goa
24. मध्य महाराष्ट्र	the series of th		24. Madhya Maharashtra
25. मराठवाड़ा	31 357 31		1 25. Marathwada
26. विदर्भ	36		26. Vidarbha
27. छत्तीसगढ़			27. Chhattisgarh
28. तटीय आंध्र प्रदेश और यनम	ſ		28. Coastal Andhra Pradesh & Yanam
29. तेलंगाना			29. Telangana
30. रायलसीमा			30. Rayalaseema
31. तमिलनाडु, पुडुचेरी और कर	ाईकल		31. Tamilnadu, Puducherry & Karaikal
32. तटीय कर्नाटक			32. Coastal Karnataka
33. आतंरिक उत्तरी कर्नाटक			33. North Interior Karnataka
34. आतंरिक दक्षिणी कर्नाटक			34. South Interior Karnataka
35. केरल और माहे			35. Kerala & Mahe
36. लक्षद्वीप			36. Lakshadweep
SPAT	IAL DISTRIBU	JTION (% «	of Stations reporting)
% Stations	Category	% Stations	Category
	ead (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75 Fairly Wides	pread (FWS/Many Places) 1-25	Isolated (ISOL)
Fog	🚗 Heavy Snow	– Cold Wave	COLOUR CODED WARNING
		•	No Warning (No Action)
	<u>A</u>		
Rain	్రి. Dust Storm	- Cold Day	Watch (Be Aware)
-	الله Dust Storm + Heat Wave	- Cold Day	Alort (Po Proparod To Take Action)
Very Heavy Rain	+ Heat Wave		Alort (Po Proparod To Take Action)
Very Heavy Rain	+ Heat Wave + Warm Night		rost Alert (Be Prepared To Take Action)
Very Heavy Rain	+ Heat Wave		rost Alert (Be Prepared To Take Action) Warning (Take Action) Probabilistic Forecast Terms Probability of Occurrence (%)
Very Heavy Rain	+ Heat Wave + Warm Night		rost Alert (Be Prepared To Take Action) Warning (Take Action) Probabilistic Forecast

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)





National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

*	Heavy: 64.5 to 115.5 mm/cm *
Rain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions (a) Based on Departure from normal
	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
leat Wave	(b). Based on Actual maximum temperature Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature 243 C.
	(c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
	When maximum temperature remains 40°C
Warm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ C for hilly regions. (a). Based on departure
	Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C. Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
Cold Wave	(b) Based on actual Minimum Temperature (for Plains only)
	Cold Wave : When Minimum Temperature is $\leq 4.0 \text{ °C}$
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	(c) For Coastal Stations When Minimum Temperature departure is \leq -4.5 °C & actual Minimum Temperature is \leq 15 °C
0-110-11	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
Fog	Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 50- 200 metres
	Very Dense Fog: when the visibility < 50 metres
nunderstorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Dust/Sand Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
	Ice deposits on ground
Frost	Air temperature ≤4°C (over Plains)
	A strong wind that rises suddenly, lasts for atleast 1 minute.
	Moderate: Wind speed 52-61 kmph
Squall	Severe: Wind speed 62-87 kmph
	Very Severe: Wind speed >87 kmph
	Effect of various waves in the sea over specific area
Sea State	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
	Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
	Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
	Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)